

Claims:

1. A method of preparing a tissue microarray comprising the steps of:
 - (a) preparing a tissue microarray block for receipt of a biological sample; and
 - (b) embedding a non-fixed biological sample in the tissue microarray block,
- 5 wherein the tissue microarray block comprises frozen tissue embedding compound.
- 10 2. The method of claim 1, wherein the biological sample is prepared for placement into the tissue microarray block by removing a core sample of frozen biological material from a donor block comprising frozen tissue embedding compound.
- 15 3. The method of claim 2, wherein the core sample of the biological material is removed from the frozen tissue embedding compound with a coring means having a temperature of less than about 4 degrees centigrade.
4. The method of claim 1, wherein the tissue embedding compound comprises about 10% polyvinyl alcohol and about 4% polyethylene glycol.
5. The method of claim 1, wherein the tissue is fixed after being embedded in the frozen tissue embedding compound.
- 20 6. The method of claim 1, further comprising the step of slicing an about 4 μm section off of the frozen tissue microarray block; wherein the section comprises a portion of the biological sample.
7. A method of preparing a biological sample for microarray analysis comprising the steps of:
 - 25 (a) preparing a tissue microarray block for receipt of a biological sample;
 - (b) freezing the biological sample in tissue embedding compound;
 - (c) removing a core sample of the biological sample from the frozen tissue embedding compound; and
 - (d) placing the core sample of the biological sample into an array within the tissue microarray
- 30 block, wherein the tissue microarray block comprises frozen tissue embedding compound.

8. The method of claim 7, wherein the core sample of the biological sample is removed from the frozen tissue embedding compound with a coring means having a temperature of less than about 4 degrees centigrade.

5 9. The method of claim 7, wherein the tissue embedding compound comprises about 10% polyvinyl alcohol and about 4% polyethylene glycol.

10. The method of claim 7, wherein the tissue is fixed after being embedded in the frozen tissue embedding compound.

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11. The method of claim 7, further comprising the step of slicing an about 4 μm section off of the frozen tissue microarray block; wherein the section comprises a portion of the biological sample.

12. A method of preparing a tissue microarray comprising the steps of:

15 (a) preparing a tissue microarray block for receipt of a biological sample, wherein the tissue microarray block comprises frozen tissue embedding compound;
(b) removing a core sample of a biological sample from a frozen donor block comprising tissue embedding compound; and
(c) placing the core sample of the biological sample into an array within the tissue microarray

20 block.

13. The method of claim 12, wherein the core sample of the biological sample is removed from the frozen tissue embedding compound with a coring means having a temperature of less than about 4 degrees centigrade.

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14. The method of claim 12, wherein the tissue embedding compound comprises about 10% polyvinyl alcohol and about 4% polyethylene glycol.

30 15. The method of claim 12, wherein the tissue is fixed after being embedded in the frozen tissue embedding compound.

16. The method of claim 12, further comprising the step of slicing an about 4 μm section off of the frozen tissue microarray block; wherein the section comprises a portion of the biological sample.
17. A process for preparing a biological sample for microarray analysis comprising embedding a non-fixed biological sample into an array within a block comprising frozen tissue embedding compound.
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18. A biological sample for microarray analysis prepared by the process of claim 17.
19. A composition comprising an array of biological samples comprising at least one non-fixed biological sample embedded in a tissue microarray block, wherein the tissue microarray block comprises frozen tissue embedding compound.
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